

Item **UNIQUE IDENTIFICATION (UID)**



WAWF/UID/RFID Users Group
December 2005

CONOPS - Item UID

- ◆ A common sense approach:
 - Mark items with **machine readable** unique identifiers
 - Centrally register pedigree data and value for each marked item
 - Retrieve unique identifier from item in use through **automatic data capture**
 - **Associate and retrieve** data on item value, maintenance history and accountability
 - Identify and define collaboratively high priority scenarios for step-wise application
- ◆ Achieve value and extend resources:
 - Exploit **automatic data capture** to improve productivity
 - Enhance **precision** of logistics, contracting, and financial business transactions
 - **Consistently capture** the value of items DoD buys, control these items during their use, and improve item performance
 - **Track items** in property accountability, inventory, and financial management systems toward achieving compliance with the Chief Financial Officers Act

Recent Priorities (Identified by the Services)

- ◆ Mark Items, Training, Training, Training
- ◆ Get DFAR clause in contracts – focus on training and compliance
- ◆ Reinforce budgets for UID
- ◆ Clarify requirements for internal/embedded
- ◆ Identify policy requirements for integration of SIM/UID/SNT/UIT
- ◆ Determine top level UID ERP requirements by mapping priority scenarios
- ◆ Steering group at OSD with services to deploy UID policy

Reengineering Property Transfers - FY04

	Acceptance Point	Phase I Present-May 05	Phase II Oct04-Jan 06	Phase III Oct05-Sep 07	Phase IV Oct06-Sep 08
External - Internal acceptance	Source and Destination	Dependent on completion of WAWF deployment			
External - Internal receipt and acceptance	Destination	Dependent on DSS-WAWF Integration			
Internal - External receipt and acceptance	Destination		GFP capture at WAWF or contractor		
Internal - Internal receipt	Destination			Integration w/Property Records	
Internal - Internal acceptance	Source and Destination				Captures & reconciles accountability transfer
External - Internal acceptance (Real Property)	On site				Integrating acquisition & real property records



Categories of Individual Items - Current State

Individual Items that are –

- Marked and Tracked
- Marked and Not Tracked
- Tracked and not Marked
- Not tracked or marked but should be
- Should not be marked or tracked because
 - Life cycle data at the item level is not a management goal
 - Asset visibility is required at the class not item level

Machine - Readable IUID Enabled Capabilities

Note: SNT/UIT do not uniformly enable machine-readable data capabilities

Classes of Supply	Tracking Item Performance	Failure Analysis	Maintenance Productivity	Supply Productivity	Safety and Accountability
Class I - Subsistence					IUID
Class II - Clothing & Individual Equipment			IUID	IUID	IUID
Class III - Fuels				IUID ¹	IUID ¹
Class IV - Construction	IUID ²	IUID ²	IUID ²	IUID ²	IUID ²
Class V - Ammunition	IUID	IUID	IUID	IUID	IUID
Class VI - Personal					
Class VII - Major Items	IUID/SNT ³	IUID/SNT ³	IUID/SNT ³ /UIT ⁴	IUID	IUID/SNT ³ /UIT ⁵
Class VIII - Medical	IUID/SNT ⁶	IUID	IUID/SNT ⁶	IUID/SNT ⁶	IUID/SNT ⁶
Class IX - Reparables	IUID/SNT ⁷	IUID/SNT ⁷	IUID/SNT ⁷ /UIT ⁸	IUID/SNT ⁷	IUID/SNT ⁷
Class X - Non-Military Program Materiel					

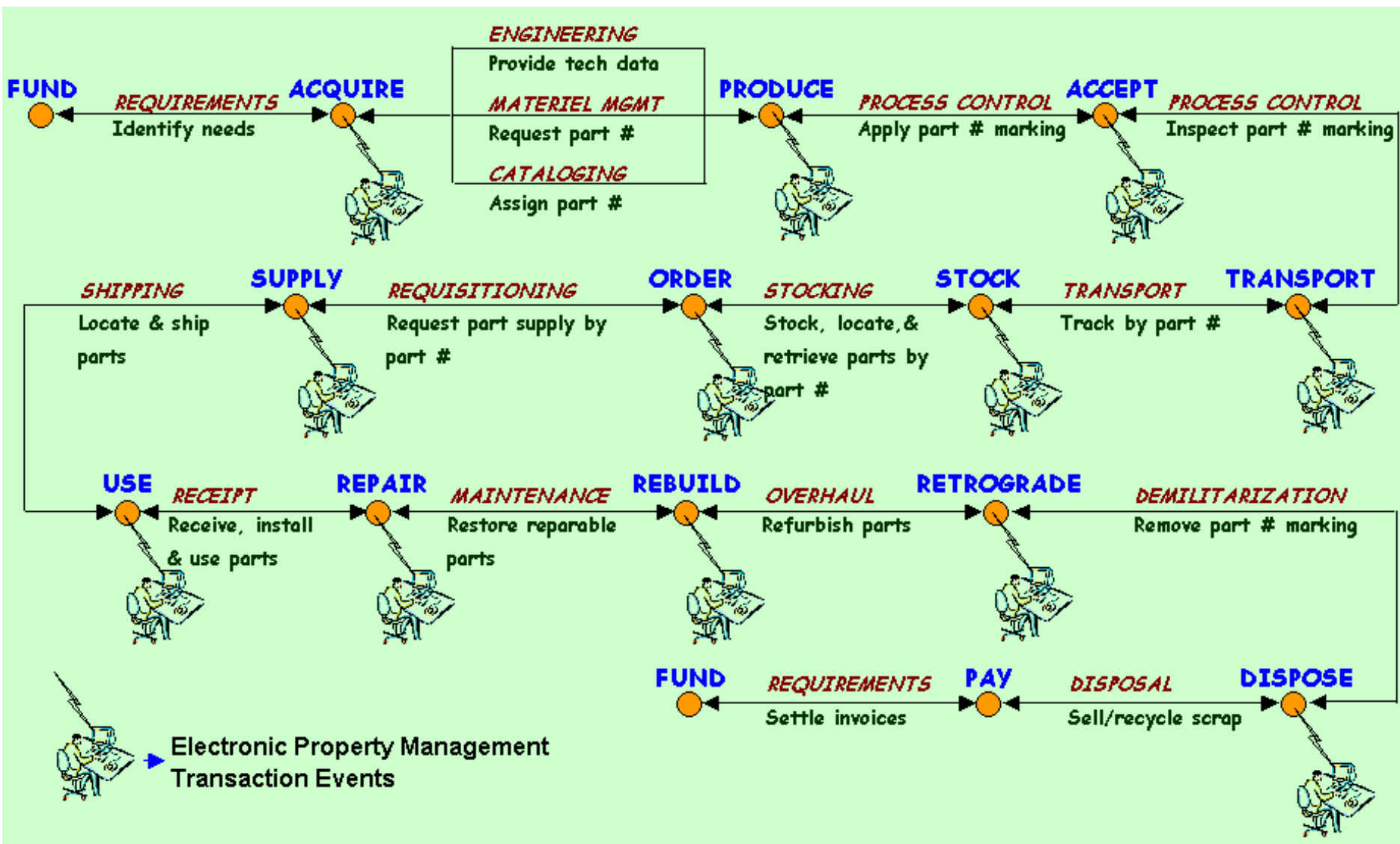
Notes: 1 - Packaged products; 2 - Installed equipment; 3 - Classified assets; 4 - TAMMS TEDB; 5 - SASP; CIC CAT 1 Items; RATTs, Tritium, CCI; 6 - DLMSS; 7 - High-value parts, aviation safety of flight parts, missile components; 8 - NDLR, TAMMS-A



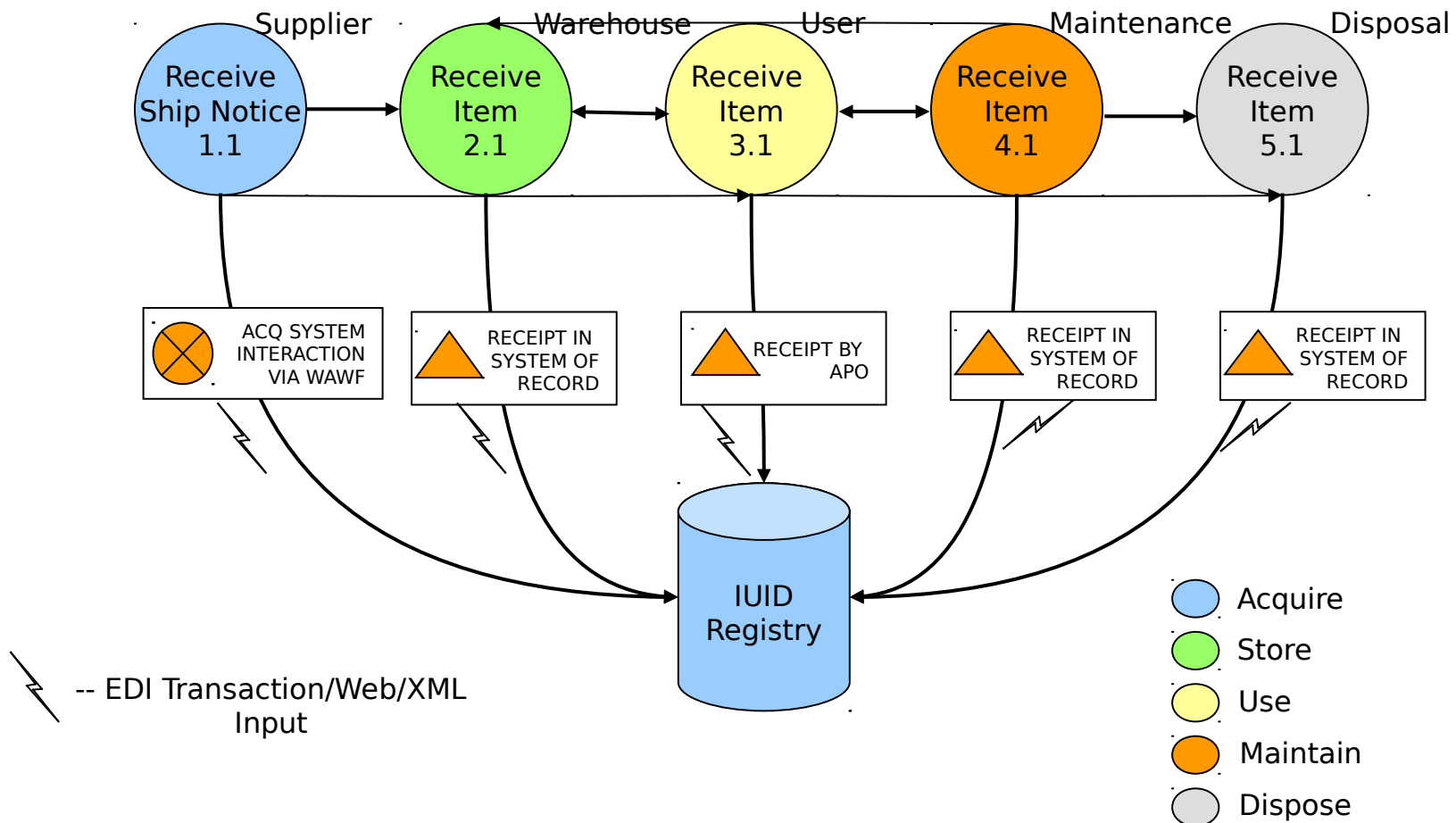
Principles for Future Property Environment - FY05

- Create data one time, reuse often
- Data should be seamless from accounting to accountability
- Property should only be in one accountability system at a time
- Acquisition value will only be recorded and updated in the UID registry; enabling the elimination of the DD1662
- UID Registry will -
 - ✓ Never be an accountability system; but will be the audit trail of current and previous accountability systems
 - ✓ Maintain basic/master UID data, including acquisition value
 - ✓ Not maintain contextual data (full life cycle); the registry will point to accountability system(s)
 - ✓ Will be updated with key transaction events
- The concatenated UII will be the common data key across systems

Data Capture Opportunities



Trigger Points for IUID Registry Updates



Scenarios

- ◆ Real Property and Personal Property
- ◆ Property transfer
- ◆ Government Furnished Property
- ◆ Military Equipment Valuation
- ◆ SIM/SNT/UIT
- ◆ Maintenance
- ◆ Supply
- ◆ Transportation

Roles and Responsibilities

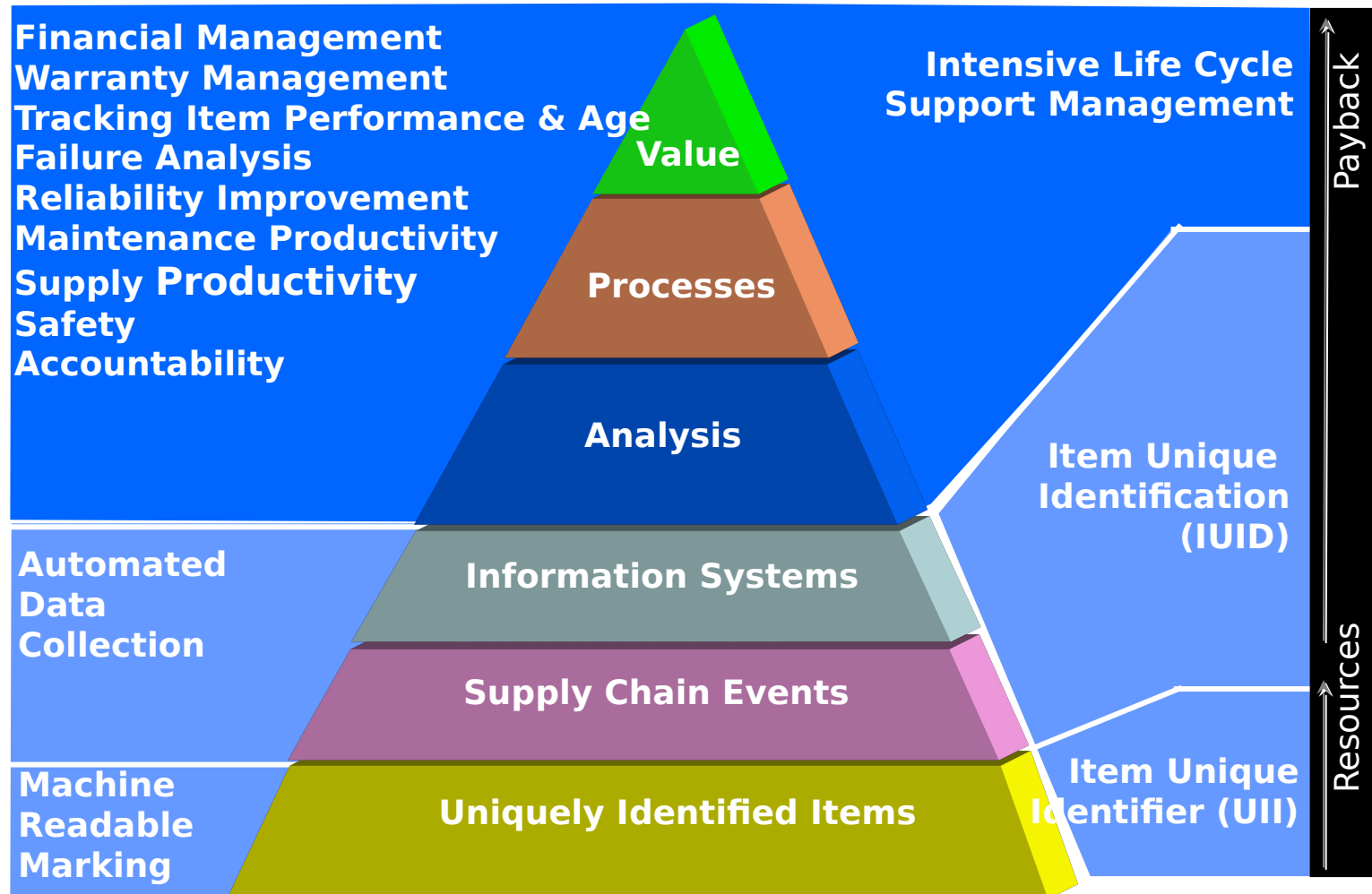
Roles	Responsibilities
Program Managers	<ul style="list-style-type: none"> ◆ Define population of individual items to be marked, tracked or managed ◆ Work with engineering community, contractors and depots
Contracting Officers	<ul style="list-style-type: none"> ◆ Get requirements on contract ◆ Insert UID clause in all supply contracts
Contractor	<ul style="list-style-type: none"> ◆ Delivers UII and registers pedigree data ◆ Maintains stewardship of GFP
DCMA or Destination	<ul style="list-style-type: none"> ◆ Inspects and accepts UII item ◆ Oversight of Government Furnished Property
IUID Registry Administration	<ul style="list-style-type: none"> ◆ Establish interfaces with WAWF and Property Systems ◆ Maintain the IUID Registry
Storage Destination	<ul style="list-style-type: none"> ◆ Receipt transactions involving UIIs
Top Level Accountability Systems	<ul style="list-style-type: none"> ◆ Receipt transactions involving UIIs ◆ Maintain UII accountable property records current and correct in the applicable system of record. Report lost, destroyed or expended UIIs
Maintenance Depot	<ul style="list-style-type: none"> ◆ Receipt transactions involving UIIs ◆ Mark legacy items as required
Disposal (DoD 4160.21M)	<ul style="list-style-type: none"> ◆ Receipt transactions involving UIIs ◆ Report disposition of UIIs

IUID Enabled Intensive Life Cycle Support Management

Capabilities

Requirements

Objectives





What is the plan?

- ◆ Identify opportunity rich environments
 - PM Plans
 - Corporate Plans
 - WAWF/RFID/UID users groups
- ◆ Execute the transition plan for government furnished property
- ◆ Develop a spectrum of solutions spanning log books to maintenance environment working with services (Depots, ERPs, Property Systems)



Ongoing UID Integration Projects - FY05/06

- ◆ Defense Medical Logistics Support System
- ◆ Small Arms Program Office
- ◆ Property Systems - AFEMS and DPAS
- ◆ PCARSS/LDD Integration
- ◆ Army and Naval Aviation Maintenance (Sikorsky; GE; Boeing; Lockheed) - Integration maintenance systems with OEMs and Depots
- ◆ Explore UID-driven improvements for T-700 management



UID Registry Plan - FY05

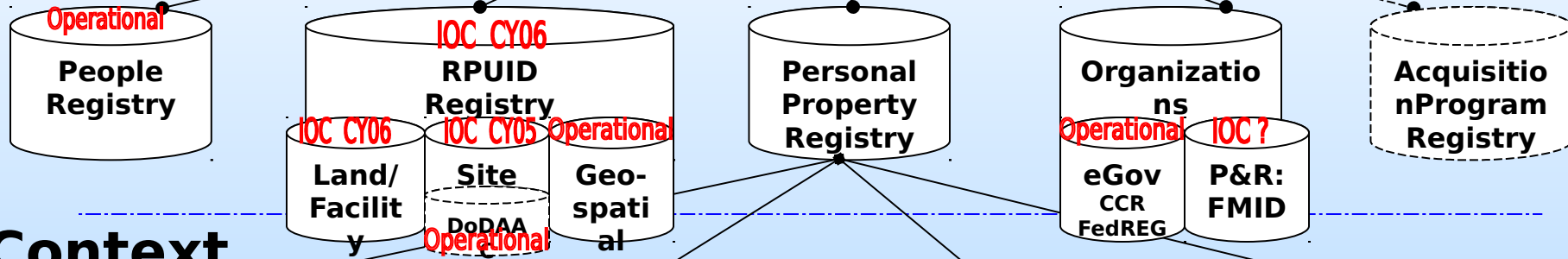
Rules

NII to incorporate
UID in data
architecture
in 2005

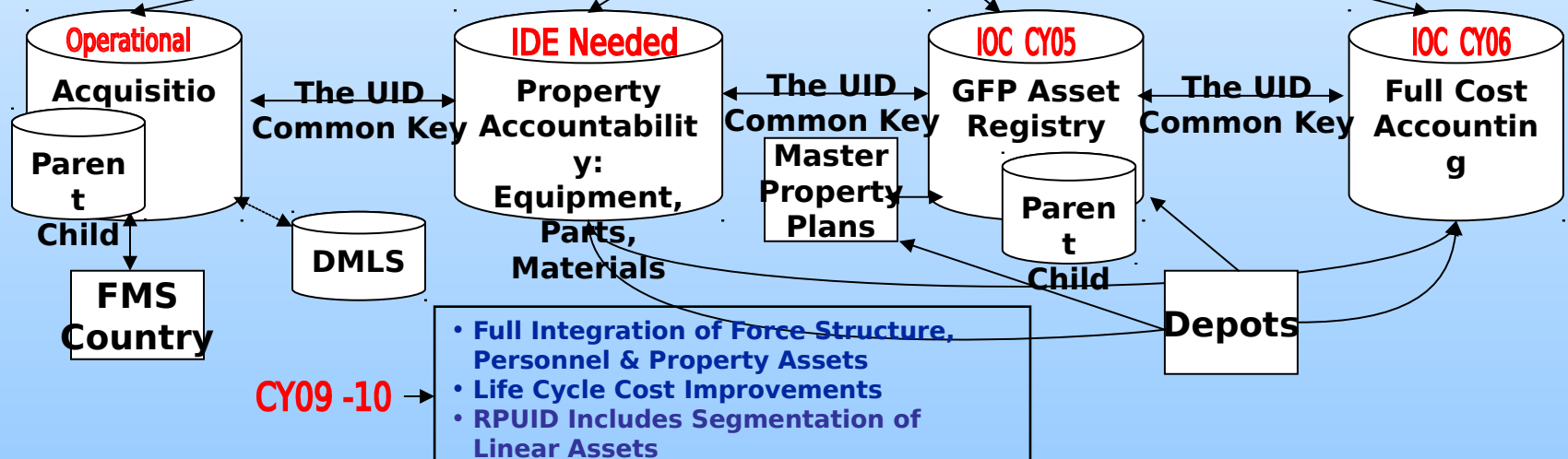
UID Registry

UID "Google"

Keys



Context

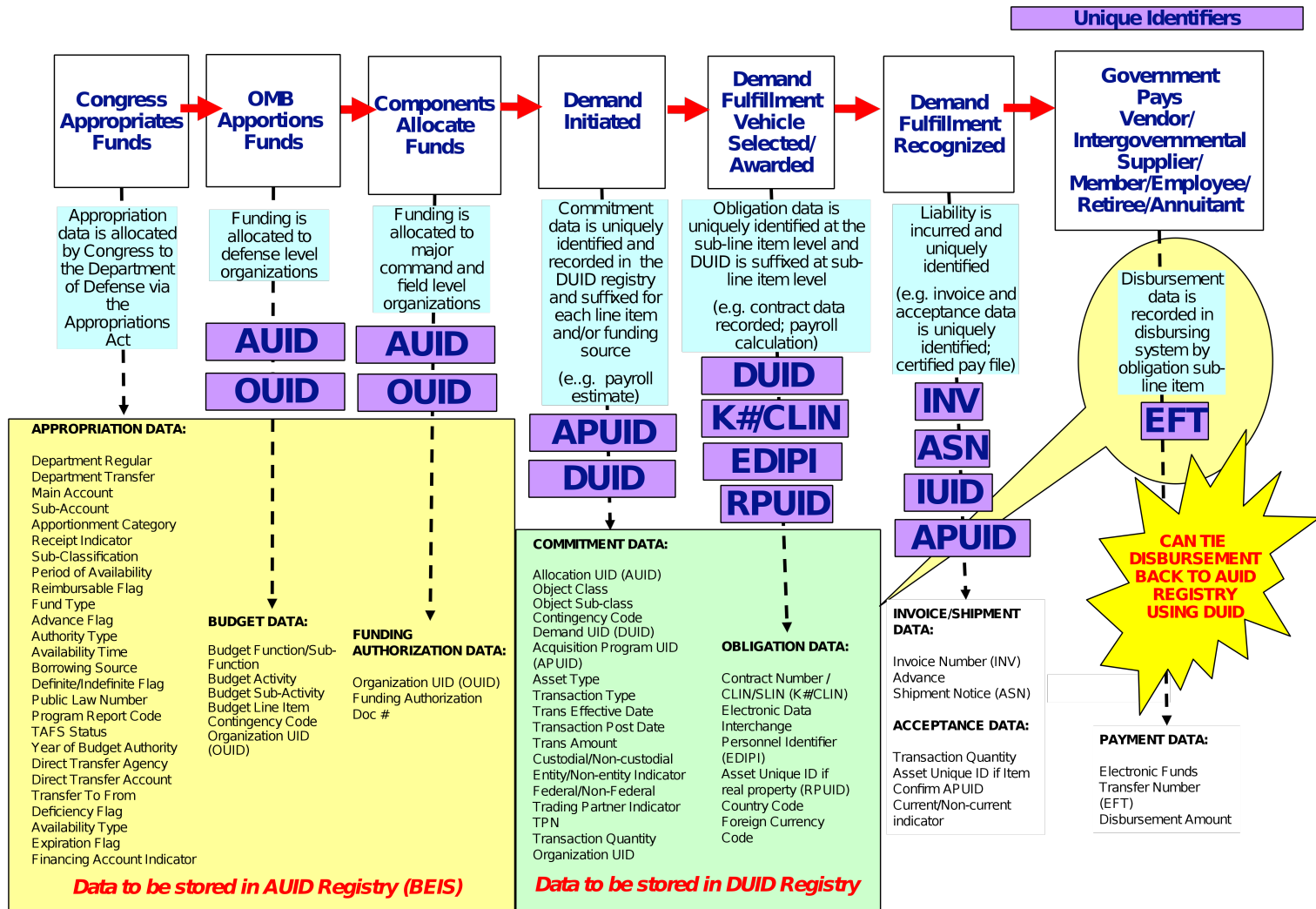




Next Steps - FY05/06

- ◆ Standard Financial Information Structure (SFIS) and UID joint CONOPS underway
 - Identifies two transaction UIDs
 - Allocation Unique ID (Budget visibility)
 - Demand Unique ID (e.g. Payroll, procurement, MILS, MIPRs, Intergovernmental)
 - Reemphasizes the need for Item, Real Property, EDI-PI (CAC card) and Organization UID
- ◆ Tiered data governance process emerging
- ◆ DoD roadmaps need to be developed integrating data, systems and process re-engineering where needed

UID and SFIS Process Flow - FY05/06



Metrics

- ◆ First Military Equipment Valuation in 2006
- ◆ Critical mass of personal property items identified. *Measurable outcomes by 2007:*
 - Existing serialized items meeting item unique identification (IUID) criteria marked and registered
 - Full Operational capability of IUID Registry
 - Full Operational capability of Real Property Unique Identification (RPUID) Registry
 - Critical Mass of RPUIDs
- ◆ 100% of personal property items and affiliated embedded items meeting IUID criteria marked and registered by December 2010.